Top Jaw Pole Tips

Mean TOP =   5.1144   Regression Line Ang. (mrad) =   0.0087

Pole Tip Num. ---->

Bottom Jaw Pole Tips

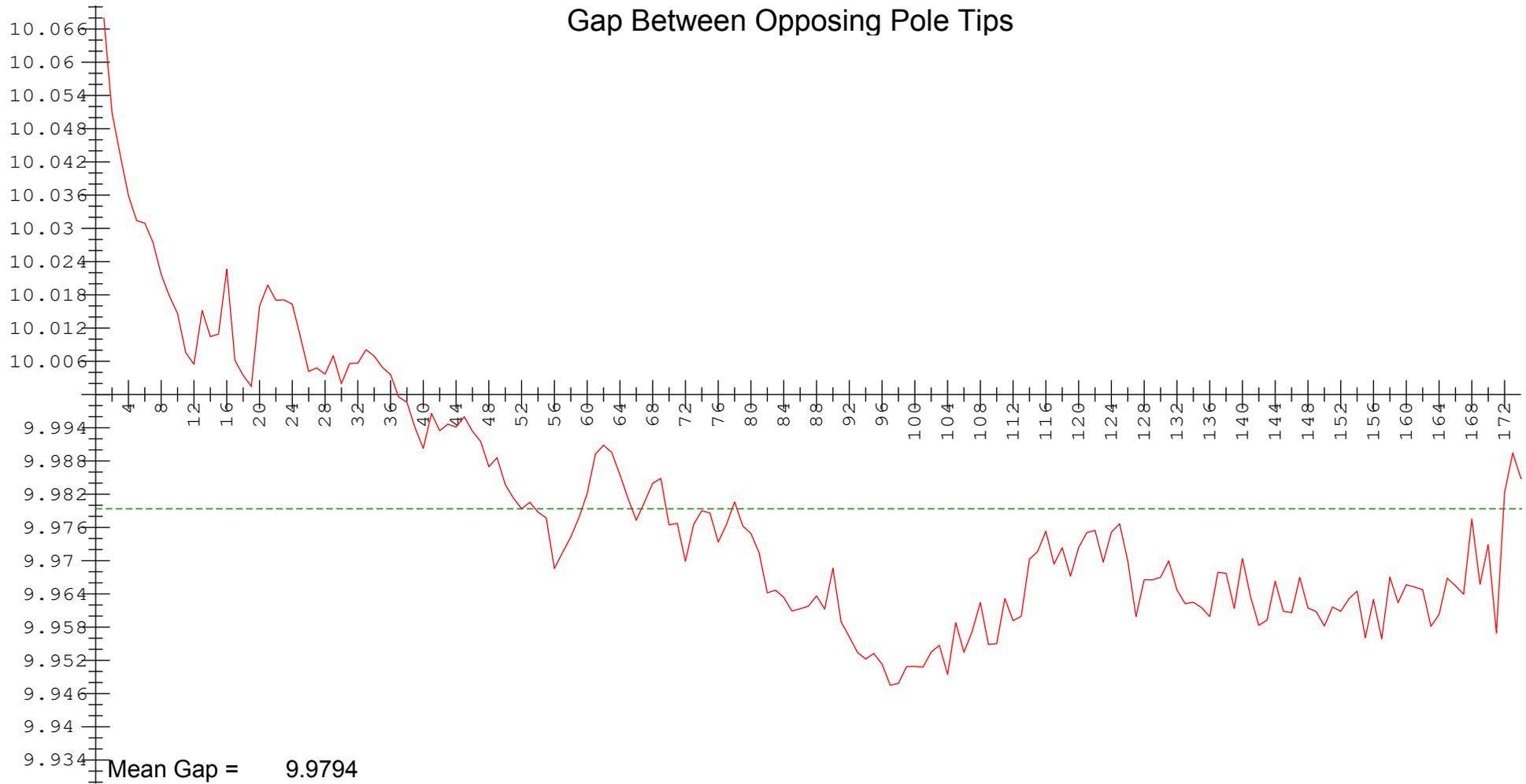Minimum Effective Gap =   9.923

Mean BTM =   -4.8649   Regression Line Ang. (mrad) =   0.0270

Y Value Scales Centered on Mean Values
Step Between Measured Pole Tips =   1

Regression Line Through Points =————
Dimensions in mm

SLAC
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METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 10   Nominal Taper = 0
Gap Reading = 10.0000   US Encoder = 10.0000   DS Encoder = 10.0000

29-MAR-2018
S/N =   008
D/S=   0001
Run=   7

Gap Between Opposing Pole Tips

Mean Gap =   9.9794

Step Between Measured Pole Tips =   1

Dimensions in mm

SLAC
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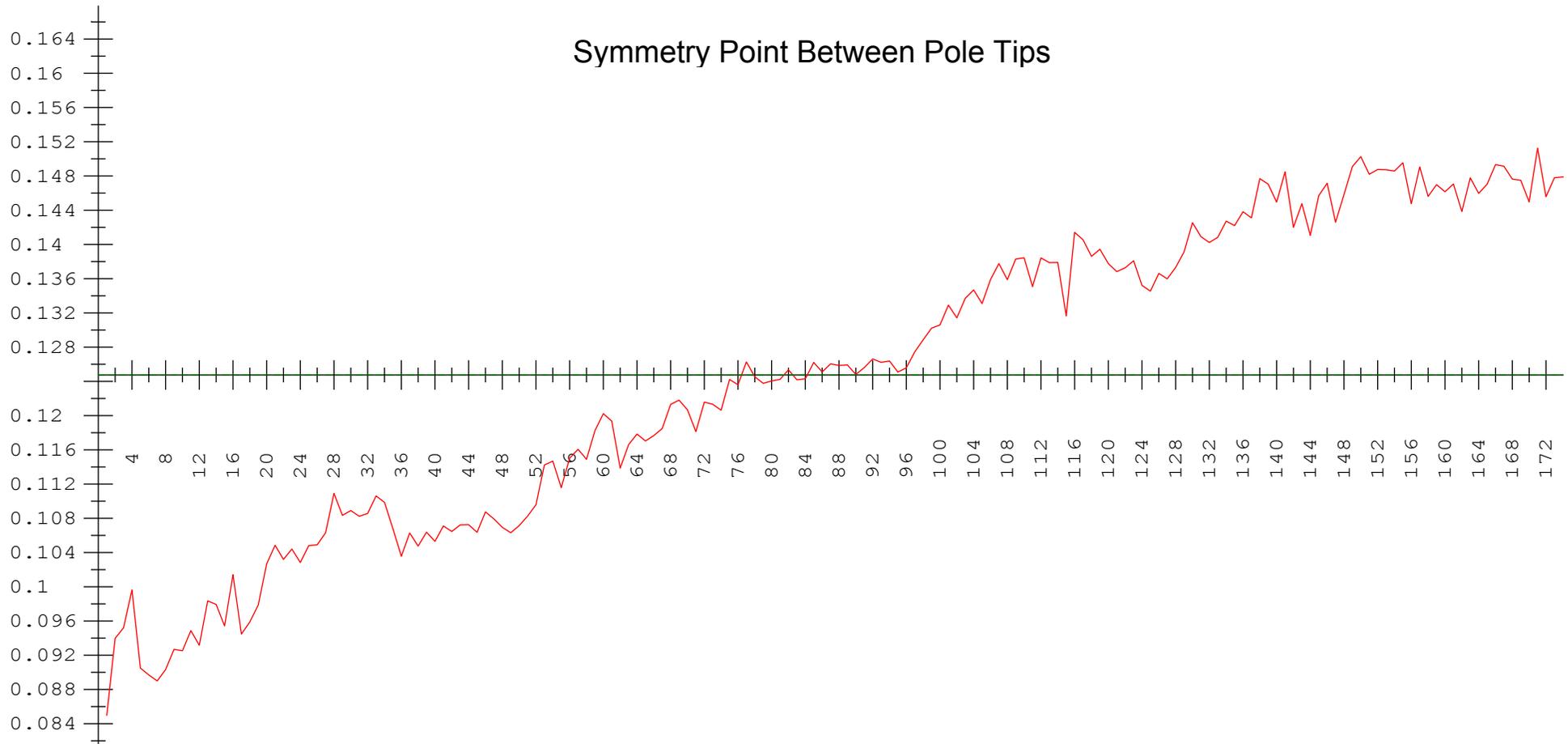METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 10   Nominal Taper = 0
Gap Reading = 10.0000   US Encoder = 10.0000   DS Encoder = 10.0000

29-MAR-2018
S/N =   008
D/S=   0001
Run=   7

Symmetry Point Between Pole Tips

Mean Symmetry Value =   0.1247

Step Between Measured Pole Tips =   1

Dimensions in mm

SLAC NATIONAL ACCELERATOR LABORATORY **METROLOGY**	**LCLS II - SXR Undulator** **Nominal Gap = 10 Nominal Taper = 0** Gap Reading = 10.0000 US Encoder = 10.0000 DS Encoder = 10.0000	29-MAR-2018 S/N = 008 D/S= 0001 Run= 7

Top and Bottom Jaw
Regression Line Intersect Points

Jaw	First Pole (Pole 1)	US Actuator (Pole 39)	DS Actuator (Pole 135)	Last Pole (Pole 174)
Top	5.0997	5.1062	5.1225	5.1292
Bottom	-4.9105	-4.8905	-4.8399	-4.8194
Gap	10.0102			9.9485
Taper				-0.0616

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.1144	-4.8649	9.9794	0.1247

Additional Calculated Values

Bottom Pole #1 Z Value	979.390
Top Jaw Pitch (mrad)	0.009
Bottom Jaw Pitch(mrad)	0.027
Minimum Effective Gap	9.923
Reference Block Gap	6.803

Dimensions in mm

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METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 10   Nominal Taper = 0
Gap Reading = 10.0000   US Encoder = 10.0000   DS Encoder = 10.0000

29-MAR-2018
S/N =   008
D/S=   0001
Run=   7